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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("20040085342").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:13
L2	1	1 and signal\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:13
L3	1	1 and (signal\$3 or transmission or wave)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:16
L4	1	3 and "computer readable"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:17
L5	0	4 and (volatile.)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:18
L6	0	4 and ctorage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:18
L7	1	4 and storage	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:20
L8	23743	(707/1,3,7,10,101,102,104).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:22

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L9	724	(382/276).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:22
L10	660	(715/723).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:22
L11	25109	8 or 9 or 10	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:23
L12	2996	11 and hash\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:23
L13	136484	12 and video or av or a/v	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:23
L14	1052	12 and (video or av or a/v)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:23
L15	621	14 and (metadata or meta-data or meta near data or associated near data)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:24
L16	344	15 and (frame\$1 or clip\$1 or segment\$1 or "scene change")	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:26

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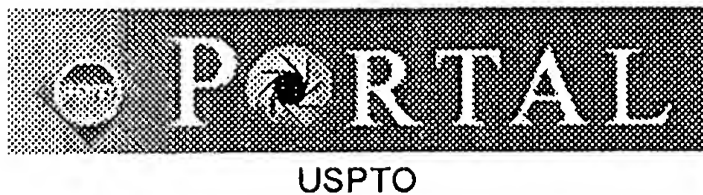
L17	0	16 and quasi-unique	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:26
L18	1	16 and quasi-unique	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:26
L19	74	16 and (refernce or hash) near value	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:26
L20	82	16 and (reference or hash.) near value	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:27
L21	32	20 and @ad<"20021021"	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:27

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L1	1	("2001204599").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:41
L2	20381	phillips.as.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:42
L3	40	2 and fingerprint\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:42
L4	110671	philips.as.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:42
L5	362	4 and fingerprint\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:42
L6	41	5 and hash\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:42
L7	20	6 and database	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:50
L8	2	("20040085342").PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	OFF	2007/03/07 10:51

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L9	0	8 and fingerprint\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:51
L10	2	8 and hash\$3	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:54
L11	330752	7 and luminance or pixel\$1	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:54
L12	7	7 and (luminance or pixel\$1)	US-PGPUB; USPAT; USOCR; EPO; DERWENT; IBM_TDB	OR	ON	2007/03/07 10:54


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1 [Data security and protection: Winnowing: local algorithms for document fingerprinting](#)



Saul Schleimer, Daniel S. Wilkerson, Alex Aiken

 June 2003 **Proceedings of the 2003 ACM SIGMOD international conference on Management of data SIGMOD '03**

Publisher: ACM Press

Full text available: pdf(180.16 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Digital content is for copying: quotation, revision, plagiarism, and file sharing all create copies. Document fingerprinting is concerned with accurately identifying copying, including small partial copies, within large sets of documents. We introduce the class of *local* document fingerprinting algorithms, which seems to capture an essential property of any finger-printing technique guaranteed to detect copies. We prove a novel lower bound on the performance of any local algorithm. We also ...

2 [Database theory, technology, and applications \(DTTA\): Fingerprinting relational databases](#)



Fei Guo, Jianmin Wang, Deyi Li

 April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**

Publisher: ACM Press

Full text available: pdf(165.18 KB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we propose a fingerprinting solution to protect valuable numeric relational data from illegal duplications and redistributions. We introduce a twice-embedding scheme. In the first embedding process, we embed a unique fingerprint to identify each recipient to whom the relational data is distributed. The embedding process is controlled by a secret key. Meanwhile, the fingerprint can be detected using the same secret key to prove ownership at a numerical confidence level. The second ...

Keywords: database, fingerprint, robustness, watermark

3 [Software and systems: Constructing a virtual primary key for fingerprinting relational data](#)



Yingjiu Li, Vipin Swarup, Sushil Jajodia

 October 2003 **Proceedings of the 3rd ACM workshop on Digital rights management DRM '03**

Publisher: ACM Press


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1 Improving duplicate elimination in storage systems



Deepak R. Bobbarjung, Suresh Jagannathan, Cezary Dubnicki

 November 2006 **ACM Transactions on Storage (TOS)**, Volume 2 Issue 4

Publisher: ACM Press

 Full text available: pdf(481.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Minimizing the amount of data that must be stored and managed is a key goal for any storage architecture that purports to be scalable. One way to achieve this goal is to avoid maintaining duplicate copies of the same data. Eliminating redundant data at the source by not writing data which has already been stored not only reduces storage overheads, but can also improve bandwidth utilization. For these reasons, in the face of today's exponentially growing data volumes, redundant data elimination t ...

Keywords: Rabin's fingerprints, Storage management, content-based addressing, duplicate elimination

2 Collaboration and group work: Collaborative extensions for the UpLib system



William C. Janssen

 June 2004 **Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries JCDL '04**

Publisher: ACM Press

 Full text available: pdf(148.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The UpLib personal digital library system is specifically designed for secure use by a single individual. However, collaborative operation of multiple UpLib repositories is still possible. This paper describes two mechanisms that have been added to UpLib to facilitate community building around individual document collections.

Keywords: collaboration, extension sharing, metadata sharing, personal digital library

3 Information retrieval session 8: efficiency: Online duplicate document detection: signature reliability in a dynamic retrieval environment



Jack G. Conrad, Xi S. Guo, Cindy P. Schriber

 November 2003 **Proceedings of the twelfth international conference on Information and knowledge management CIKM '03**



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1 [Improving duplicate elimination in storage systems](#)



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Keywords: Rabin's fingerprints, Storage management, content-based addressing, duplicate elimination

2 [Industry/government track paper: Finding similar files in large document repositories](#)



George Forman, Kave Eshghi, Stephane Chiochetti

August 2005 **Proceeding of the eleventh ACM SIGKDD international conference on Knowledge discovery in data mining KDD '05**

Publisher: ACM Press

Full text available: pdf(832.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Hewlett-Packard has many millions of technical support documents in a variety of collections. As part of content management, such collections are periodically merged and groomed. In the process, it becomes important to identify and weed out support documents that are largely duplicates of newer versions. Doing so improves the quality of the collection, eliminates chaff from search results, and improves customer satisfaction. The technical challenge is that through workflow and human processes, th ...

Keywords: content management, document management, near duplicate detection, scalability, similarity

3 [Tunable randomization for load management in shared-disk clusters](#)

Changxun Wu, Randal Burns


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1 [1st international workshop on advanced data processing in ubiquitous computing](#)


[\(ADPUC 2006\): Alchemist: user driven searching in ubiquitous networks](#)

Matthew Shields, Ian Taylor

 November 2006 **Proceedings of the 1st international workshop on Advanced data processing in ubiquitous computing (ADPUC 2006) ADPUC '06**

Publisher: ACM Press

 Full text available: [pdf\(237.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a generic peer-to-peer architecture, called Alchemist, which provides a peer-to-peer overlay coupled with a data fusion workflow environment for the searching or discovery of distributed resources. The Alchemist is designed to be generic and can host a number of different peer-to-peer applications or other frameworks. We provide an example of how it can be applied to audio and visual searching by using the underlying toolkit to provide workflows for the manipulation of diffe ...

2 [Aurora: a new model and architecture for data stream management](#)

Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik

 August 2003 **The VLDB Journal — The International Journal on Very Large Data**
Bases, Volume 12 Issue 2

Publisher: Springer-Verlag New York, Inc.

 Full text available: [pdf\(585.97 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Abstract. This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that a software system must process and react to continual inputs from many sources (e.g., sensors) rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...

Keywords: Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

3 [Dynamic Metadata Management for Petabyte-Scale File Systems](#)

Sage A. Weil, Kristal T. Pollack, Scott A. Brandt, Ethan L. Miller

 November 2004 **Proceedings of the 2004 ACM/IEEE conference on Supercomputing SC '04**



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IET JNL IET Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IET CNF IET Conference Proceeding

IEEE STD IEEE Standard

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Karras, D.A.;
[Neural Networks, 2004. Proceedings. 2004 IEEE International Joint Conference on](#)
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Lancini, R.; Mapelli, F.; Mucedero, A.;
[Acoustics, Speech, and Signal Processing, 2004. Proceedings. \(ICASSP '04\). International Conference on](#)
Volume 3, 17-21 May 2004 Page(s):iii - 445-8 vol.3
Digital Object Identifier 10.1109/ICASSP.2004.1326577
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Nicholson, A.J.; Junghee Han; Watson, D.; Noble, B.D.;
[Mobile Computing Systems and Applications, 2006. WMCSA '06. Proceedings Workshop on](#)
06-07 April 2006 Page(s):61 - 68
Digital Object Identifier 10.1109/WMCSA.2006.9
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- ☐ 5. **Fast retrieval of electronic messages that contain mistyped words or spe**
Wang, J.T.-L.; Chia-Yo Chang;
[Systems, Man and Cybernetics, Part B, IEEE Transactions on](#)
Volume 27, Issue 3, June 1997 Page(s):441 - 451

Digital Object Identifier 10.1109/3477.584951

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- ☐ **6. Secure identity authentication and logical access control for airport infor**
David, M.W.; Hussein, G.A.; Sakurai, K.;
[Security Technology, 2003. Proceedings. IEEE 37th Annual 2003 International Conference on](#)
14-16 Oct. 2003 Page(s):314 - 320
Digital Object Identifier 10.1109/CCST.2003.1297578
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- ☐ **7. Spatio-Temporal Transform Based Video Hashing**
Coskun, B.; Sankur, B.; Memon, N.;
[Multimedia, IEEE Transactions on](#)
Volume 8, Issue 6, Dec. 2006 Page(s):1190 - 1208
Digital Object Identifier 10.1109/TMM.2006.884614
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- ☐ **8. Managing statistical behavior of large data sets in shared-nothing archite**
Rigoutsos, I.; Delis, A.;
[Parallel and Distributed Systems, IEEE Transactions on](#)
Volume 9, Issue 11, Nov. 1998 Page(s):1073 - 1087
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[AbstractPlus](#) | [References](#) | Full Text: [PDF\(320 KB\)](#) IEEE JNL
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- ☐ **9. Quasi-pipelined hash circuits**
Macchetti, M.; Dadda, L.;
[Computer Arithmetic, 2005. ARITH-17 2005. 17th IEEE Symposium on](#)
27-29 June 2005 Page(s):222 - 229
Digital Object Identifier 10.1109/ARITH.2005.36
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- ☐ **10. Fast retrieval of electronic documents in digital libraries**
Wang, J.T.L.; Chia-Yo Chang;
[Tools with Artificial Intelligence, 1995. Proceedings., Seventh International Co](#)
5-8 Nov. 1995 Page(s):208 - 215
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- ☐ **11. A novel hashing algorithm for video sequences**
Mucedero, A.; Lancini, R.; Mapelli, F.;
[Image Processing, 2004. ICIP '04. 2004 International Conference on](#)
Volume 4, 24-27 Oct. 2004 Page(s):2239 - 2242 Vol. 4
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- ☐ **12. Audio hashing technique for automatic song identification**
Mapelli, F.; Lancini, R.;
[Information Technology: Research and Education, 2003. Proceedings. ITRE20](#)
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11-13 Aug. 2003 Page(s):84 - 88
Digital Object Identifier 10.1109/ITRE.2003.1270578

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- ☐ **13. Integrating semantics-based access mechanisms with P2P file systems**
Zhu, Y.; Wang, H.; Hu, Y.;
[Peer-to-Peer Computing, 2003. \(P2P 2003\). Proceedings. Third International \(](#)
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- ☐ **14. The need of perceptual hashing techniques for music scores**
Irons, J.; Schmucker, M.;
[Web Delivering of Music, 2003. 2003 WEDELMUSIC. Proceedings. Third Inter](#)
[Conference on](#)
15-17 Sept. 2003 Page(s):49 - 52
Digital Object Identifier 10.1109/WDM.2003.1233873
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- ☐ **15. Random Multispace Quantization as an Analytic Mechanism for BioHashi
and Random Identity Inputs**
Teoh, A.B.J.; Goh, A.; Ngo, D.C.L.;
[Pattern Analysis and Machine Intelligence, IEEE Transactions on](#)
Volume 28, Issue 12, Dec. 2006 Page(s):1892 - 1901
Digital Object Identifier 10.1109/TPAMI.2006.250
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- ☐ **16. A framework for secure download for software-defined radio**
Michael, L.B.; Mihaljevic, M.J.; Haruyama, S.; Kohno, R.;
[Communications Magazine, IEEE](#)
Volume 40, Issue 7, July 2002 Page(s):88 - 96
Digital Object Identifier 10.1109/MCOM.2002.1018012
[AbstractPlus](#) | [References](#) | [Full Text: PDF\(693 KB\)](#) [IEEE JNL](#)
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- ☐ **17. Toward secure public-key blockwise fragile authentication watermarking**
Barreto, P.S.L.M.; Kim, H.Y.; Rijmen, V.;
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Volume 149, Issue 2, April 2002 Page(s):57 - 62
[AbstractPlus](#) | [Full Text: PDF\(504 KB\)](#) [IET JNL](#)

- ☐ **18. Divalia: a practical framework for anonymous peer-to-peer file exchange
hoc networks**
Vogt, R.; Nikolaidis, I.; Gburzynski, P.;
[Communication Networks and Services Research Conference, 2006. CNSR 2](#)
[of the 4th Annual](#)
24-25 May 2006 Page(s):8 pp.
Digital Object Identifier 10.1109/CNSR.2006.26
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- ☐ **19. High-speed and memory efficient TCP stream scanning using FPGA**
Sugawara, Y.; Inaba, M.; Hiraki, K.;
[Field Programmable Logic and Applications, 2005. International Conference o](#)
24-26 Aug. 2005 Page(s):45 - 50
Digital Object Identifier 10.1109/FPL.2005.1515697

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- ☐ **20. Promotional and commercial content distribution based on a legal and tr framework**
Schmucker, M.; Ebinger, P.;
[E-Commerce Technology, 2005. CEC 2005. Seventh IEEE International Conf](#)
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- ☐ **21. A wavelet-based public key image authentication watermarking**
Chien-Chang Chen; Kang-Chih Fan; Sheng-Wen Wang;
[Security Technology, 2003. Proceedings. IEEE 37th Annual 2003 International Conference on](#)
14-16 Oct. 2003 Page(s):321 - 324
Digital Object Identifier 10.1109/CCST.2003.1297579
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